

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P456247

Luminaire Tested: **GALN-SA7C-727-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-727-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29489 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

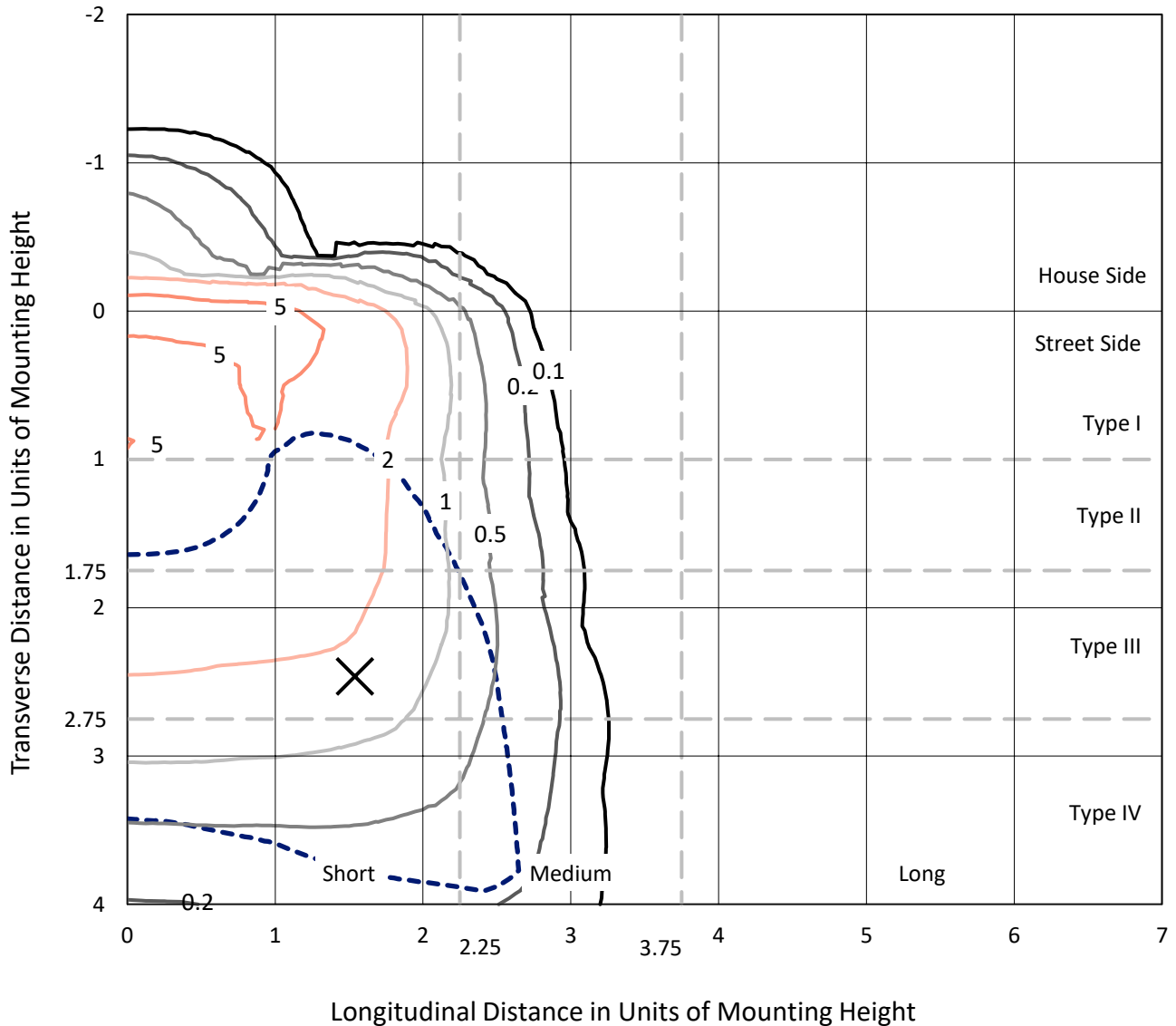
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456247  
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### Iso-Footcandle Lines of Horizontal Illumination

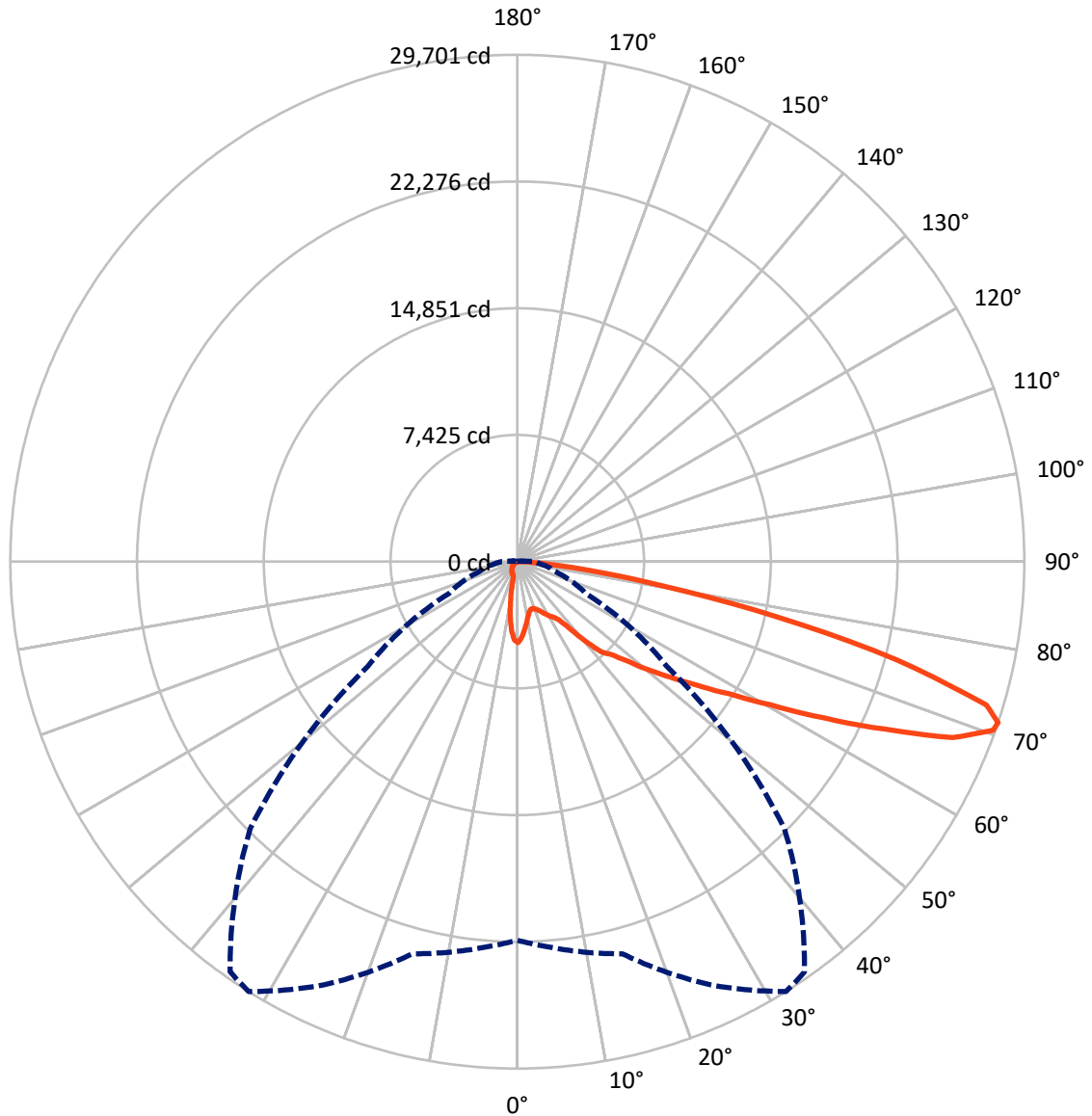
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P456247  
CATALOG NUMBER: GALN-SA7C-727-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical



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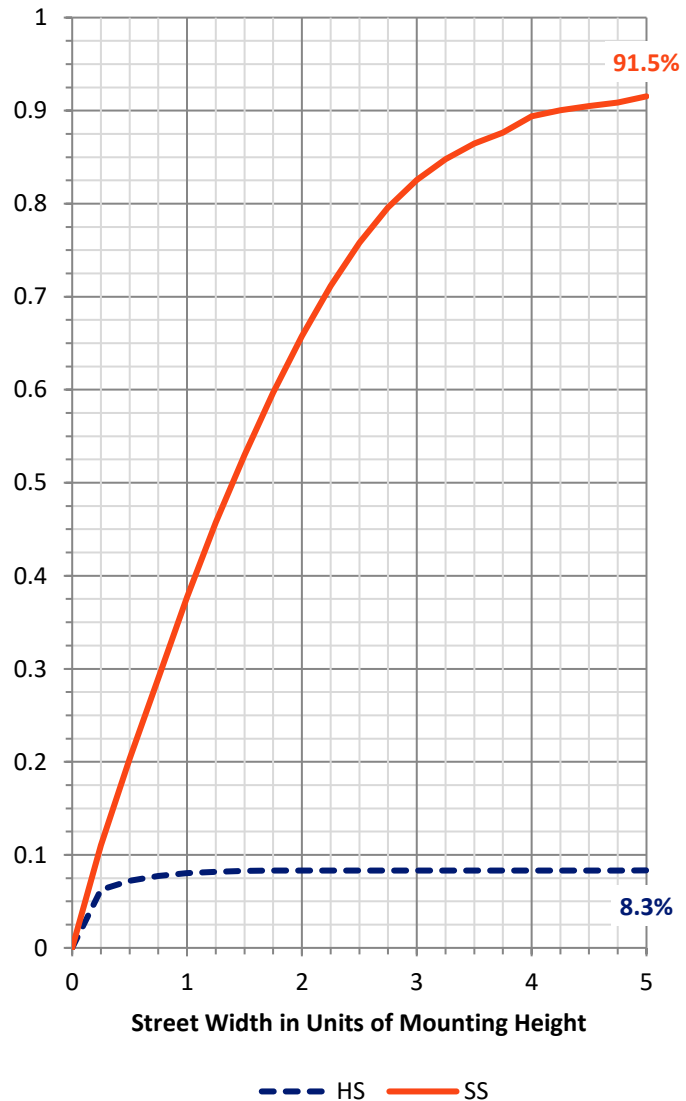
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2470.0	0.0	2470.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	27019.0	0.0	27019.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	29489.0	0.0	29489.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.6	1.3
10°-20°	836.9	2.8
20°-30°	1302.0	4.4
30°-40°	2169.1	7.4
40°-50°	4034.8	13.7
50°-60°	6478.1	22.0
60°-70°	8713.3	29.5
70°-80°	5169.7	17.5
80°-90°	399.6	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	29489.0	100.0
0°-180°	29489.0	100.0



REPORT NUMBER: P456247

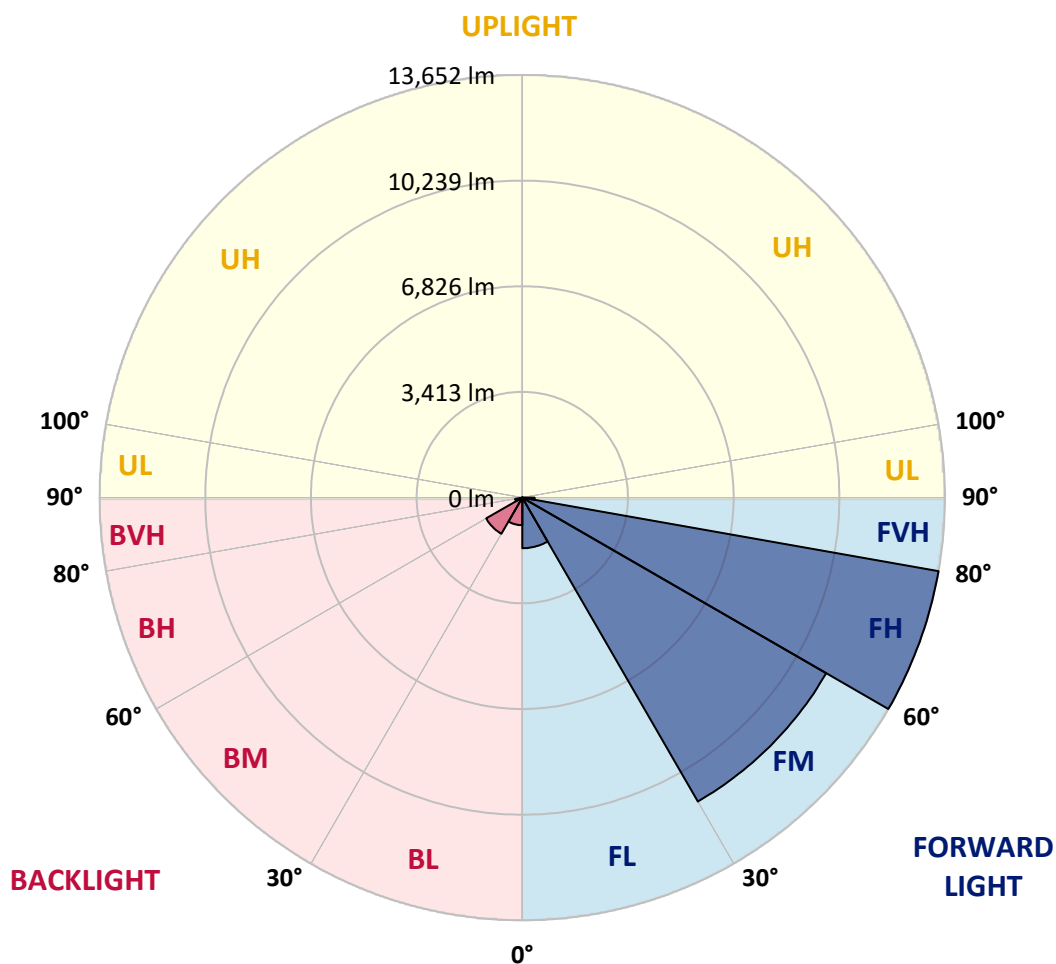
CATALOG NUMBER: GALN-SA7C-727-U-T4FT-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1634.5	5.5			
FM	(30°-60°)	11334.5	38.4			
FH	(60°-80°)	13652.0	46.3			G5
FVH	(80°-90°)	398.0	1.3			G3/500
BL	(0°-30°)	890.0	3.0	B2/1000		
BM	(30°-60°)	1347.5	4.6	B2/2500		
BH	(60°-80°)	231.0	0.8	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





REPORT NUMBER: P456247

CATALOG NUMBER: GALN-SA7C-727-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3
2.5°	4398.2	4443.5	4436.7	4452.5	4491.0	4506.9	4549.9	4597.4	4663.1	4708.3	4737.8
5°	3938.7	3972.7	3977.2	4056.4	4094.9	4137.9	4264.7	4402.7	4556.7	4678.9	4760.4
7.5°	3447.5	3465.6	3501.8	3606.0	3703.3	3746.3	3938.7	4178.6	4420.9	4649.5	4796.6
10°	3042.3	3062.7	3128.3	3239.2	3329.8	3386.4	3653.5	3954.6	4294.1	4633.6	4848.7
12.5°	2811.4	2822.7	2847.6	2947.2	3062.7	3123.8	3411.3	3755.4	4192.2	4640.4	4937.0
15°	2795.6	2791.0	2761.6	2802.4	2906.5	2969.9	3250.6	3619.5	4101.7	4663.1	5041.1
17.5°	2879.3	2868.0	2797.8	2797.8	2883.9	2935.9	3182.7	3547.1	4056.4	4715.1	5188.2
20°	3008.4	2990.2	2874.8	2865.7	2949.5	3003.8	3223.4	3551.6	4065.5	4812.5	5385.2
22.5°	3171.3	3151.0	2976.7	2981.2	3071.7	3126.1	3341.1	3633.1	4122.1	4932.4	5595.7
25°	3384.1	3361.5	3155.5	3146.4	3241.5	3289.0	3515.4	3778.0	4201.3	5081.8	5871.8
27.5°	3667.1	3619.5	3372.8	3359.2	3461.1	3522.2	3725.9	3972.7	4341.6	5287.8	6243.1
30°	3900.2	3848.2	3612.7	3576.5	3685.2	3732.7	3943.2	4235.2	4617.8	5647.7	6756.9
32.5°	4205.8	4128.8	3852.7	3757.6	3873.1	3934.2	4257.9	4724.2	5027.5	6028.0	7368.1
35°	4894.0	4846.4	4509.1	4176.4	4169.6	4246.6	4721.9	5217.7	5448.5	6621.1	8201.1
37.5°	5878.6	5844.7	5487.0	5041.1	4912.1	4875.8	5285.6	5760.9	6120.8	7436.0	9169.9
40°	7021.8	6942.5	6614.3	6236.3	6068.8	5962.4	5951.1	6569.0	6999.1	8542.9	10179.5
42.5°	7841.2	7696.3	7297.9	7270.8	7234.5	7123.6	6802.2	7750.6	8133.2	9733.6	11259.3
45°	8701.4	8481.8	7888.7	7786.9	7773.3	7766.5	8087.9	9149.6	9369.1	11023.8	12368.4
47.5°	9369.1	9194.8	8708.2	8662.9	8719.5	8873.4	9787.9	10634.5	10589.2	12173.8	13298.8
50°	10258.7	10127.5	9586.4	9672.5	9964.5	10215.7	11705.2	12253.0	11592.0	13079.2	13975.6
52.5°	11309.1	11066.9	10564.3	10797.5	11245.7	11664.5	13740.2	13670.0	12296.0	13760.6	14480.4
55°	12219.0	12047.0	11875.0	12117.2	12787.2	13310.1	15578.3	14731.7	12807.6	14308.4	14702.2
57.5°	13758.3	13717.6	13541.0	13787.7	14600.4	15143.6	17223.9	15555.6	13135.8	14593.6	14441.9
60°	16035.5	15969.9	15641.6	15956.3	17015.7	17869.0	18740.5	16295.8	13210.5	14482.7	13692.7
62.5°	18774.5	18550.4	18269.7	18733.8	20187.0	20562.8	20168.9	16735.0	12932.1	13599.9	11886.3
65°	21332.4	21101.5	21108.3	22086.2	23668.5	23924.2	21834.9	16669.3	12117.2	11388.3	8767.0
67.5°	23290.4	23251.9	23528.1	25436.3	27505.3	27328.7	23324.4	15686.9	9701.9	7381.7	4658.5
70°	23390.0	23464.7	24257.0	27478.1	29578.8	29298.1	23197.6	12751.0	6048.4	3395.4	1835.8
71°	22185.8	22688.3	23783.9	27414.7	29701.0	29336.6	22129.2	10679.8	4436.7	2367.8	1324.2
72.5°	18905.8	19170.6	21538.4	25800.8	28734.4	27955.8	19419.6	7485.8	2840.8	1448.7	760.6
75°	10412.7	11064.6	14423.8	20241.3	22982.6	22299.0	12655.9	3556.2	1417.0	792.3	314.6
77.5°	4957.3	4830.6	7037.6	12038.0	15582.8	15546.6	6376.6	1580.0	826.2	536.5	158.5
80°	1417.0	1593.6	2693.7	5722.4	8651.6	8746.6	2449.2	762.8	572.7	418.8	81.5
82.5°	427.8	436.9	989.2	2530.7	4303.1	4056.4	919.0	389.3	412.0	332.8	47.5
85°	74.7	92.8	292.0	891.9	1641.1	1245.0	230.9	185.6	271.6	219.6	27.2
87.5°	4.5	6.8	97.3	101.9	144.9	83.8	40.7	27.2	58.9	58.9	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GALN-SA7C-727-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3	4742.3
2.5°	4758.1	4771.7	4762.7	4742.3	4708.3	4667.6	4613.3	4568.0	4529.5	4509.1	4534.0
5°	4787.6	4805.7	4760.4	4658.5	4504.6	4337.1	4147.0	3999.8	3884.4	3848.2	3834.6
7.5°	4832.8	4844.2	4721.9	4495.6	4169.6	3773.5	3427.1	3135.1	2908.8	2840.8	2741.2
10°	4891.7	4884.9	4654.0	4233.0	3660.3	3064.9	2528.5	2130.1	1829.0	1720.4	1711.3
12.5°	4982.2	4946.0	4568.0	3875.3	3053.6	2274.9	1611.7	1260.8	1070.7	1007.3	993.7
15°	5095.4	5009.4	4432.2	3456.6	2338.3	1469.1	993.7	887.3	862.4	857.9	853.4
17.5°	5229.0	5093.2	4253.3	2942.7	1643.4	953.0	830.7	828.5	830.7	826.2	824.0
20°	5410.1	5181.4	4040.6	2333.8	1086.5	803.6	792.3	792.3	794.5	792.3	792.3
22.5°	5602.5	5285.6	3778.0	1781.5	819.4	762.8	760.6	765.1	769.6	767.4	767.4
25°	5840.1	5421.4	3431.7	1220.1	733.4	728.9	731.2	740.2	749.3	751.5	749.3
27.5°	6184.2	5588.9	3060.4	839.8	672.3	676.8	699.5	722.1	735.7	737.9	737.9
30°	6571.3	5774.5	2576.0	681.4	622.5	622.5	649.7	692.7	722.1	726.6	728.9
32.5°	7069.3	5989.5	2039.5	613.4	575.0	570.4	595.3	647.4	701.7	717.6	717.6
35°	7685.0	6243.1	1516.6	570.4	541.0	529.7	543.3	586.3	656.5	701.7	706.3
37.5°	8407.1	6483.0	1109.2	532.0	509.3	493.5	502.5	536.5	593.1	661.0	679.1
40°	9074.9	6695.8	828.5	500.3	477.6	466.3	473.1	488.9	536.5	599.9	611.2
42.5°	9803.8	6861.0	658.7	466.3	445.9	441.4	441.4	448.2	479.9	516.1	518.4
45°	10530.4	6919.9	552.3	425.6	412.0	416.5	414.2	409.7	423.3	418.8	418.8
47.5°	11048.7	6849.7	457.3	387.1	387.1	393.9	382.6	366.7	359.9	332.8	335.0
50°	11404.1	6593.9	375.8	341.8	359.9	369.0	346.3	321.4	296.5	267.1	260.3
52.5°	11551.3	6138.9	307.9	283.0	319.2	330.5	303.3	273.9	235.4	210.5	203.7
55°	11456.2	5577.6	255.8	230.9	269.4	283.0	255.8	221.8	178.8	151.7	147.1
57.5°	11037.4	4907.5	217.3	183.4	215.0	224.1	206.0	169.8	126.8	99.6	99.6
60°	10313.1	4214.9	176.6	144.9	160.7	174.3	156.2	122.2	86.0	61.1	56.6
62.5°	8844.0	3422.6	142.6	113.2	113.2	124.5	108.7	88.3	54.3	31.7	29.4
65°	6385.7	2347.4	113.2	83.8	81.5	81.5	67.9	58.9	31.7	13.6	9.1
67.5°	3470.1	1324.2	90.5	63.4	56.6	54.3	43.0	34.0	13.6	2.3	0.0
70°	1365.0	509.3	70.2	43.0	36.2	34.0	22.6	15.8	9.1	0.0	0.0
71°	925.8	350.9	61.1	36.2	29.4	24.9	18.1	13.6	6.8	0.0	0.0
72.5°	529.7	217.3	47.5	27.2	22.6	18.1	13.6	9.1	6.8	0.0	0.0
75°	230.9	110.9	29.4	20.4	15.8	11.3	9.1	6.8	2.3	0.0	0.0
77.5°	117.7	61.1	20.4	15.8	9.1	6.8	4.5	2.3	0.0	0.0	0.0
80°	65.6	31.7	13.6	9.1	6.8	4.5	2.3	2.3	0.0	0.0	0.0
82.5°	36.2	18.1	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.6	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	4.5	0.0	0.0	0.0	0.0	2.3	2.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)